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from the faculty, the alumni association, the students, and a large number of citizens of the state of Utah, the board has in all cases rejected, declaring that it alone is responsible for the management of the university, that it has no doubts as to the correctness of its past action and the rectitude of its own motives and those of the president, and that it therefore can not permit its action to be influenced by protests coming from others. This position seems to the committee to show that the board fails to understand, or at least to act upon, three fundamental facts: namely, that every institution of public education, and especially a state university, requires for its success the confidence and respect of the public; that there can be no sure hold upon public confidence without an unflinching readiness to face publicity in regard to all official acts and policies; and that the only effective way in which any public body can meet serious charges brought by responsible persons is by not merely permitting, but demanding a searching and open inquiry into its methods. The committee gathers that the attitude taken by the board has aroused on the part of a large section of the local public, including a majority of the alumni and of the students, a degree of suspicion, and even hostility, which must be a continuing detriment to the university's efficiency as an instrument of public education, and must affect disadvantageously the position and the work of teachers in the institution.

THE PACIFIC DIVISION OF THE AMERICAN ASSOCIATION

At a recent meeting of the Pacific Coast Committee of the American Association for the Advancement of Science, the first executive committee of the Pacific Division was elected in accordance with the provisions of the constitution of the division. The officers of the division have been elected by the executive committee. The result of these elections is as follows:

President: Dr. W. W. Campbell, Lick Observatory, Mt. Hamilton.

Vice-president: Dr. D. T. MacDougal, Carnegie Desert Laboratory, Tucson.

Secretary-Treasurer: Albert L. Barrows, University of California.

Executive Committee: Theodore C. Frye, University of Washington; Edward C. Franklin, Stanford University; C. E. Grunsky, San Francisco;

George E. Hale, Mt. Wilson Solar Observatory, Pasadena; Vernon L. Kellogg, Stanford University; Andrew C. Lawson, University of California; E. Percival Lewis, University of California.

The Pacific Division is now supported by about one thousand of the members of the American Association resident within the region and by affiliations with twelve local scientific societies. After the San Francisco meeting of the American Association during the first week of next August, the recently elected officers of the division will carry on the work of the association on the Pacific coast which up to this time has been conducted by the Pacific Coast Committee. The first meeting of the Pacific Division will be held in the spring of 1916.

SCIENTIFIC NOTES AND NEWS

COLUMBIA UNIVERSITY has conferred its doctorate of science on Robert S. Griffin, rear-admiral and engineer-in-chief, U. S. Navy, and Arthur L. Day, director of the geophysical laboratory, Carnegie Institution of Washington.

THE Stevens Institute of Technology has conferred the degree of doctor of science on Otto H. Tittmann, for many years superintendent of the United States Coast and Geodetic Survey.

DR. V. G. HEISER has resigned as director of health in the Philippines, to accept the position of director for the Orient of the work of the Rockefeller Foundation.

DR. RICHARD H. CREEL, of the Federal Health Bureau, has declined the offer of the post of health commissioner of Boston.

DR. ELWOOD MEAD, who has accepted a call to the newly established professorship of rural institutions in the University of California, has been appointed by Secretary Lane chairman of a central board of review of the committees on revision of reclamation project costs.

A TESTIMONIAL dinner was tendered to Dr. Leo Loeb at the University Club, St. Louis, on May 25, by members of the medical profession of St. Louis, the scientific faculties

of Washington University and St. Louis University and members of the Biological Society of St. Louis.

A TESTIMONIAL dinner to Henry Smith Munroe, professor of mining in Columbia University, 1877-1915, was given by his old students in the schools of mines, engineering and chemistry at the Chemists' Club, New York, on May 28. The special occasion for this was the approaching retirement of Professor Munroe at the close of the present collegiate year. Professor Munroe, who is the senior member of the faculty, will then have completed thirty-eight years of service. The speaking following the dinner was begun by R. V. Norris, president of the Alumni Association, who introduced Professor J. F. Kemp as toastmaster. The other speakers were President Nicholas Murray Butler for the university; Thomas Haight Leggett for the American Institute of Mining Engineers; Walter Renton Ingalls for the Mining and Metallurgical Society of America, and John Parke Channing for the alumni. In concluding his remarks, Mr. Channing presented to Professor Munroe, on behalf of his former students, a massive bronze—the Sluice-Miner—by Louis Potter. To these speeches Professor Munroe replied.

THE Alpha Chapter of the Society of Sigma Xi has elected the following officers for 1915-1916: *President*, J. G. Needham; *Vice-president*, F. K. Richtmeyer; *Recording Secretary*, J. G. Pertsch; *Corresponding Secretary*, James McMahon; *Treasurer*, O. A. Johannsen.

At the annual meeting of the Yale Chapter of Sigma XI, Professor L. L. Woodruff was elected president and Dr. H. L. Seward vice-president. Professor R. S. Lull will give the address at the joint commencement meeting of Sigma Xi and Phi Beta Kappa at Yale.

DR. JAMES W. JOBLING, of the Vanderbilt School of Medicine, Nashville, Tenn., was elected president of the American Association of Immunologists at its recent Washington meeting.

PROFESSOR ALFRED DACHNOWSKI, in charge of plant physiology and ecology at Ohio State

University, has accepted a position in the bureau of plant industry, U. S. Department of Agriculture. He will continue his investigations upon peat soils and their agricultural utilization.

MR. G. L. FAWCETT, plant pathologist of the Porto Rico Experiment Station at Mayaguez, resigned in February and has gone to Argentina, where he has accepted a position as plant pathologist of the Experiment Station at Tucuman.

MR. LOUIS G. SCHULTZ, director of the Argentine Central Magnetic Observatory at Pilar, since its foundation in 1903, has recently resigned and returned to the United States.

POUL LINDHOLM, engineer of highways, Copenhagen, Denmark, has been awarded the traveling fellowship of the American Scandinavian Foundation for 1915-16. He will devote the year to graduate work in highway engineering at Columbia University.

PROFESSOR HANS LUDENDORFF has been appointed head observer in the Astrophysical Observatory at Potsdam.

DR. R. TAIT MCKENZIE, director of the department of physical education at the University of Pennsylvania, sailed on May 29, for London, where he will take charge of the new physical department established by the British government to care for the health of recruits.

PROFESSOR JOHN M. COULTER, of the University of Chicago, will give two courses of lectures in the University of California during their summer session, which begins on June 21. One of them is an elementary course in evolution and heredity; the other is an advanced course in the evolution of sex in plants.

PROFESSOR GRAHAM J. MITCHELL, of the department of geology of the University of Oregon, will spend the coming summer in Curry County with Professor B. S. Butler, of the school of mines of the Oregon Agricultural College. Professor Warren D. Smith, head of the department of geology of the University of Oregon, will spend a part of

the summer studying the stratigraphy of the western slope of the Cascades. Both of these pieces of work will be carried on for the Oregon Bureau of Mines and Geology. During three weeks of the summer between July 12 and August 1, Professor Smith in cooperation with Professor Sweetser, of the botany department, University of Oregon, will conduct a field class to Crater Lake.

PROFESSOR JOHN H. SCHAFFNER, of the Ohio State University, will spend two months this summer in Kansas, Arizona and California, making a detailed study of the conifers of North America.

DR. W. RALPH JONES, scientific assistant in plant pathology in the office of Fruit Disease Investigations, of the U. S. Department of Agriculture, died on May 17, in the thirty-second year of his age. Dr. Jones was a graduate of Johns Hopkins University and had been engaged in the study of small-fruit diseases for several years.

DR. SAMUEL BALDWIN WARD, since 1884 dean of the Albany Medical College and professor of the theory and practise of medicine, died on June 3 at the age of seventy-three years. He was graduated from Columbia University in 1861 and from the medical department of Georgetown University in 1864. From 1867 to 1869 Dr. Ward was curator of the medical museum of Columbia University. He was professor of anatomy at the Woman's Medical College of the New York Infirmary from 1867 to 1870, and of surgery from 1870 to 1876. From 1876 to 1884 he was professor of surgical pathology at the Albany Medical College.

MANY American men of science, especially the geologists who participated in the Gaspé excursion of the Twelfth International Geological Congress, 1913, will learn with regret of the recent death at Gaspé, of Commander William Wakeham, Dominion inspector of marine fisheries in the Lower River and Gulf of St. Lawrence. Commander Wakeham was the courteous and delightful host on this occasion, of the geological party on board his cruiser *Princess* in a trip down Gaspé Bay. Dr. Wakeham's entire professional life was

spent on that coast, first as physician, then as magistrate and inspector of fisheries for the Quebec coast, and subsequently as His Majesty's commissioner for the preservation of the fisheries in Canadian Atlantic waters. He attained distinction for his intimate knowledge of fish, fish breeding and fisheries procedures and was recognized as a leading authority in these fields, while his long life and intimate concern with all the activities of the coast made him the most influential and most widely informed personality of the Gaspé country.

AMONG the passengers on the *Lusitania* was James Blaine Miller, of the Coast and Geodetic Survey. No information in regard to him has been received and there is practically no doubt that he went down with the vessel. James Blaine Miller was born in Erie County, Pennsylvania, October 30, 1883. He graduated from Oberlin College, Ohio, in June, 1903, with the degree of bachelor of arts. He was appointed an aid in the survey June 18, 1903, was promoted to assistant September 1, 1906, and during his twelve years of service was employed chiefly on hydrographic and leveling work in various localities. In 1904 he was engaged in surveys in Porto Rico. In 1906 he was in command of the steamer *Endeavor* in the survey of Chesapeake Bay; in 1906 he was placed in command of the steamer *Research* in the Philippine Islands; in 1909 he was transferred to the command of the *Fathomer*; in 1911 he returned to the United States and in the fall of that year he was placed in command of the steamer *Patterson* for surveying work in the Hawaiian Islands and on the coast of Alaska. He was detached from the command of the *Patterson* in March of the present year, and had been granted leave for several months to take a trip abroad.

SCIENCE of June 4 mentions the death in the European war of Joseph Déchelette and Captain M. Bourlon, both of whom have made valuable contributions to French archeology. The last number of *L'Anthropologie* adds to these Captain René Avelot, known for his contributions to geography and especially those dealing with the ancient populations of cen-

tral and eastern Africa; and Captain Maurice Cortier, an eminent topographer, active in archeology in the territory of Sahara.

SIR ARTHUR HERBERT CHURCH, formerly professor of chemistry at the Royal Academy of Arts, London, known for his contributions to chemistry and mineralogy, has died at the age of eighty-one years.

DR. ERNST MEUMANN, professor of psychology at Hamburg, known for his contributions to experimental and educational psychology, has died at the age of fifty-three years.

THE death is also announced of Dr. Stefan Witasek, director of the psychological laboratory at Gratz, at the age of forty-five years.

DR. OSKAR SIMONY, emeritus professor of mathematics and physics in the Agricultural School at Vienna, has died at the age of sixty-three years.

THE Brooklyn Botanic Garden was opened on June 5 for inspection by its members and invited friends and, on the following day, it was opened to the general public, and will remain open, free to all, daily hereafter.

THE third annual meeting of the American Association of Anesthetists will be held in the New Auditorium, San Francisco, on June 21, under the presidency of Dr. Charles K. Teter, of Cleveland. There will be two scientific sessions, the first item on the program being the address of the president, who will speak on the subject "Nitrous Oxide Oxygen Anesthesia in Obstetrics."

THERE has been founded by the graduate and undergraduate students of the department of geology and mining of the University of Kansas a professional fraternity, Sigma Gamma Epsilon. It is proposed to establish chapters of the organization in the leading educational institutions of the United States and Canada. At present there does not appear to be any such fraternity and it is hoped that its organization will promote an increased interest in geological science.

AT the election of members to the Society of the Sigma Xi held recently by the Omega Chapter of the Ohio State University the following candidates were chosen: Professor J.

Warren Smith, professor of meteorology from the faculty; seventeen young men and two young women from the graduate school and fourteen young men from the fourth year or senior class. This is the largest number ever elected by the Omega chapter. The greater increase is from the graduate school, as candidates from this class are not eligible unless they have done creditable research work as well as shown an inclination and ability to continue such work.

THE newly established chapter of Sigma Xi was installed at the University of Texas on the evening of May 17. The installation exercises were conducted by Professor S. W. Williston of the University of Chicago. Professor Williston gave an interesting public lecture on "The Contribution of Texas to our Knowledge of Early Land Life." Following the lecture the installation proper took place at the university club house in the presence of the charter members, initiates and invited guests. The chapter consists of twenty-one charter members and eleven newly elected members. The following are charter members: C. L. Baker, E. C. H. Bantel, S. L. Brown, J. M. Bryant, H. P. Bybee, D. B. Casteel, E. L. Dodd, W. S. Hunter, D. J. Jones, T. L. Kelley, J. M. Kuehne, I. M. Lewis, F. McAllister, J. T. Patterson, M. B. Porter, A. Richards, E. P. Schoch, F. W. Simonds, F. L. Whitney, C. S. Yoakum and M. S. Young. The newly elected members are: F. D. Barrow, Mrs. L. T. Binkley, A. Deussen, W. A. Felsing, C. G. Hartman, Miss Goldie Horton, W. T. Read, E. W. Schuhmann, B. C. Tharp, T. U. Taylor and J. A. Udden. The following officers have been elected for the coming year: :

President: Professor J. T. Patterson.

Vice-president: Professor F. W. Simonds.

Recording Secretary: Professor E. L. Dodd.

Corresponding Secretary: Professor I. M. Lewis.

Treasurer: Professor S. L. Brown.

MT. LASSEN, California, whose violent eruption of May 19 places it in the first rank of volcanoes now dangerously active, has become the subject of an informal cooperative study by the geological survey and the forest service. At the request of the survey, a tele-

gram has been sent from Washington instructing the officers of the Lassen national forest, in which the peak stands, to continue observations of the volcano's activity and keep a record to be used as a basis for a scientific investigation by J. S. Diller, the government geologist, who is expected at Lassen early in July. The observations are being made by forest rangers at the scene and from a fire lookout tower on Brokeoff Mountain, a few miles north of the crater, where the forest service last year kept watch on the numerous eruptions which occurred from May to September. It is not known whether a cloudburst started the last eruption by precipitating rain down upon the molten lava in the crater, or whether melting of the snow on the peak, with consequent flowing of water into the crater, caused the accumulation of steam which blew a river of mud out of the mountain. Mr. Diller, who made a study of the volcano last year, said that he inclined toward the melted snow theory, adding that the bright glow reported as appearing on the clouds of smoke and steam over the crater is a reflection of the red-hot matter uncovered by the eruption, indicating that the volcano is in a more or less dangerous mood. The river of mud which was shot out of the north side of the crater and down Hat Creek has damaged government and private property, destroying bridges which were necessary to permit the entrance of livestock that are grazed on the forest range during the summer. Some 12,000 cattle and 30,000 sheep are grazed on the Lassen forest every year.

SPECIAL arrangements have been made for the members of the Geological Society of America and of the Association of American Geographers attending their summer meetings and the sessions of the American Association for the Advancement of Science at San Francisco beginning August 2, 1915, for a "special" over the Santa Fe Railroad leaving Chicago on July 23 at 10:30 p.m. and Kansas City at 11 a.m. on July 24. Numerous stops and short side-trips are provided for to visit points of particular geological interest and especially places best showing the features of desert erosion, the latter subject being one of

the main themes of discussion at the sessions. For a limited number of other members of the American Association for the Advancement of Science who are intending to be present at the San Francisco meetings and who wish to join the special party, ample provision will be made. Those joining the special party may return home individually at any time and over any route. The cheapest way will be for each person to purchase a round-trip railroad ticket at his home town, via the Santa Fe route from Chicago and Kansas City to San Francisco, with returning privileges over any other route he wishes; this includes stop-overs at Los Angeles and San Diego without additional cost. Pullman reservations, Chicago or Kansas City to San Francisco, should be made early by direct communication with Mr. Samuel Larimer, general agent, passenger department, Santa Fe Lines, 315 7th St., Des Moines, Iowa. The geological direction of the special party will be under the supervision of Dr. Charles Keyes, Des Moines, Iowa, to whom communications may be addressed concerning full information and detailed itinerary. The cost of the side-trips, etc., for the five extra days on the way going will be about \$25.00 above regular individual fares, or about \$35.00 if the Painted Desert trip is taken.

THE third annual joint field meet of the United States Bureau of Mines, the American Mine Safety Association and the California Metal Producers' Association will be held at the Panama-Pacific Exposition on September 23 and 24. It is expected that there will be a large attendance of mining men, as the joint meet will either precede or follow the annual meetings of a number of institutions allied to the mining interests, such as the American Institute of Mining Engineers, September 17 and 18; the International Engineering Congress, September 20 to 25; the American Mining Congress, September 20 to 22; the California State Mine Rescue and First Aid Contest, September 22; and the National Safety Conference, under the joint auspices of the National Safety Council and the California Industrial Acci-

dents Commission, September 27 to 30. On September 23, on the athletic field of the Panama-Pacific International Exposition, there will be a mine-rescue demonstration at 10 o'clock; at 2 o'clock in the afternoon there will be a first-aid demonstration; and at 4 o'clock a demonstration of the explosibility of coal dust. On September 24, at 10 o'clock, will be held a first-aid contest for inter-state supremacy; at 2 in the afternoon a rescue contest for inter-state supremacy; at 4 in the afternoon a rock drilling contest, and at 8 o'clock in the evening, there will be an award of prizes and souvenirs at the convention hall.

UNIVERSITY AND EDUCATIONAL NEWS

THE Illinois legislature has passed a bill appropriating \$5,000,000 for the use of the University of Illinois for the biennium beginning July 1, 1915. This amount lacks but little of being the whole of the fund that has accumulated in the state treasury from the one-mill tax voted four years ago for the support of the state university.

By the will of Miss Helen Collamore, of Boston, \$100,000 is bequeathed to Simmons College, \$20,000 to Radcliffe College and \$10,000 primarily to aid women students in post-graduate courses in the Massachusetts Institute of Technology.

THE General Education Board plans to enter the field of educational research by assisting workers of institutions of learning, as well as supporting experiments and inquiries. Further progress is reported in the project for establishing an institute for training public health workers. A model county organization will be perfected in Mississippi, with the cooperation of the state superintendent. Several appropriations are also announced. Two hundred thousand dollars are subscribed to the Vassar College endowment fund, \$125,000 to that of Denison University, Granville, Ohio, and \$100,000 to Pomona College, Claremont, Cal. The sum of \$140,650 is appropriated for the current year's work in developing secondary and rural schools for both white and Negro races. The board has contributed \$21,000 for

continuing the farm demonstration work for children's clubs in Maine and \$10,000 in New Hampshire, undertaken with the agricultural colleges of these states.

PROFESSOR R. J. POOL has been chosen by the board of regents of the University of Nebraska to be acting head of the department of botany, to fill the place made vacant by the death of Professor Charles E. Bessey. J. E. Weaver, for two and one half years connected with the botanical department of Washington State College, and for the past year with the botanical department of the University of Minnesota, has been appointed assistant professor of botany in the department.

DR. JOSEPH PETERSON, the circumstances of whose resignation from the chair of psychology in the University of Utah have been noted in this journal, has been appointed professorial lecturer in the University of Minnesota. Other appointments at Minnesota are: Elmer J. Lund, assistant professor of zoology; Robert C. Ashby, assistant professor of animal husbandry; Jean MacKinnon, assistant professor of nutrition; Lucile Wheeler, assistant professor of foods and cookery; Merritt R. Grose, instructor in chemistry, and John C. West, instructor in physical education.

DR. GEORGE W. CORNER, now on the staff for gynecology of Johns Hopkins University, has been appointed assistant professor of anatomy, and I. C. Hall, formerly of the Cutter laboratories, assistant professor of bacteriology, in the University of California.

At the University of Illinois Robert Stewart, professor of chemistry in the Utah Agricultural College has been appointed associate professor of soil fertility and assistant chief in soil fertility in the Agricultural Experiment Station. Gilbert Gussler, of the University of Ohio, has been appointed associate in animal husbandry in the College of Agriculture. R. D. Carmichael, of the University of Indiana, has been appointed to be assistant professor of mathematics in the university.

LEE R. DICE, Ph.D. (California, '15), has been appointed instructor in zoology at the Kansas State Agricultural College.